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NEW-TYPE INTERFEROMETER SITES

USSR

FIRST REVEALED SIMILAR CONSTRUCTION ACTIVITY				
AT THE TYURATAM AND KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTERS				
WHICH SUBSEQUENT COVERAGE REVEALED TO BE NEW-TYPE INTERFEROMETERS				
UNDER CONSTRUCTION. THERE WAS NO EVIDENCE OF SUCH CONSTRUCTION				
ACTIVITY AT THE KAPUSTIN YAR/VLADIMIROVKA MTC ON				
OR AT THE TYLEATAM MTC ON				

- 2. THE INTERFEROMETERS AT THE KAPUSTIN YAR/VLADIMIROVKA MTC AND AT

 THE TYURATAM MTC APPEAR TO BE "L"-SHAPED WITH 2 BASE LEGS, EACH

 APPROXIMATELY 2,000 FT LONG, WHICH INTERSECT AT A RIGHT ANGLE.

 EACH LEG HAS AN ANTENNA PEDESTAL AT THE OUTER END AND A COARSE,

 IN ADDITION TO A FINE ANTENNA MOUNT, NEAR THE POINT OF INTER
 SECTION, GIVING A TOTAL OF 3 ANTENNA POSITIONS ON EACH LEG. TWO

 OTHER ANTENNA MOUNTS ARE LOCATED OFF-CENTER AT THE INTERSECTION

 POINT. THE CONTROL AREA IS LOCATED APPROXIMATELY 950 FT OFF-CENTER

 OF THE BASE LINE INTERSECTION. WAVEGUIDE RUNS, OR POSSIBLY CABLE

 TRAYS, EXTEND FROM THE CONTROL AREA TO THE BASE LEG TERMINALS AND

 POINT OF INTERSECTION.
- 4. THIS MISSION REVEALS A NEW-TYPE INTERFEROMETER SITE AT PLESETSK ICBM COMPLEX, IMMEDIATELY NORTH OF THE ADMINISTRATION AND HOUSING AREA.

These notes have been prepared for briefing purposes only and should not be used for detailed analytical work. Their use should be restricted to the particular briefing board(s) they were prepared for and must be considered valid only for the reporting period as indicated by the date of issue.

GROUP 1
Excluded from automatic downgrading and declassification

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THIS IS THE THIRD IDENTIFICATION OF THE NEW-TYPE INTERFEROMETER

AND THE FIRST OBSERVED AT A DEPLOYED OPERATIONAL ICBM COMPLEX.

THE INTERFEROMETER, IN THE VERY EARLY STAGES OF CONSTRUCTION, IS

LAID OUT IN AN "L"-SHAPE AND, WHEN COMPLETE, WILL HAVE 2 BASE LEGS

APPROXIMATELY 2,150 FT IN LENGTH,

WHEN COMPLETE THE SYSTEM

WILL INCLUDE AT LEAST 7 ANTENNAS ALONG THE BASE LEGS, 2 ADDITIONAL ANTENNAS OFF-SET FROM THE CENTROL ANTENNA, A LARGE CONTROL BUNKER CENTRALLY LOCATED APPROXIMATELY 800 FT SOUTH OF THE CENTRAL ANTENNA POSITION, AND 2 CABLE CONDUITS EXTENDING OUT FROM THE CONTROL BUNKER TO THE TERMINAL ANTENNA POSITIONS. THE SITE WAS NOT PRESENT ON KH

5. A RADIO-FREQUENCY INTERFEROMETER IS A DEVICE USED TO TRACK AN AIRCRAFT, MISSILE, OR SATELLITE BY <u>Phase comparison techniques</u> - That
is, by determining the changing angle of a radio signal from the
target as it passes overhead.

THERE ARE NUMEROUS VARIATIONS OF INTERFEROMETERS DEPLOYED BOTH IN THE U.S. AND U.S.S.R. THE INTERFEROMETERS AT THE TYURATAM MTC, KAPUSTIN YAR/VLADIMIROVKA MTC, AND PLESETSK ICBM COMPLEX ARE THE NEWEST TYPE THUS FAR IDENTIFIED IN THE U.S.S.R.

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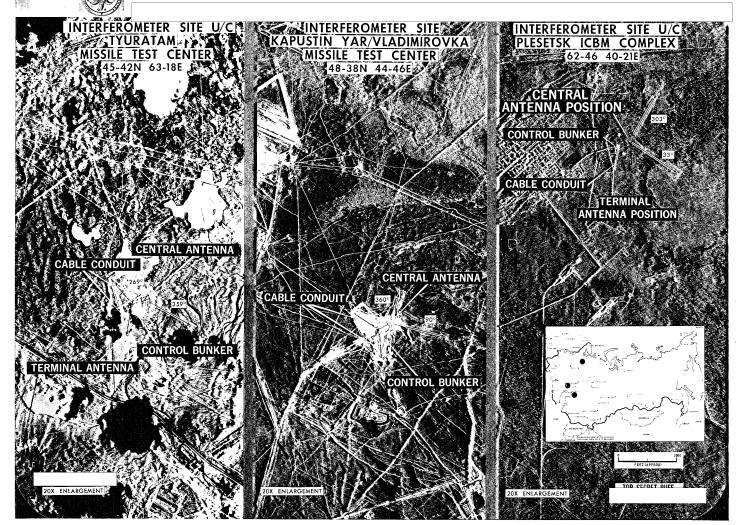
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NEW-TYPE INTERFEROMETER SITES USSR



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